

FL7006

Electric Field Probe

- 100kHz–6GHz
- 0.5–800 V/m
- User-selectable X, Y, Z Axes

Specifications

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Amplitude Accuracy (field aligned with sensor axes):

Without correction factors applied:
 ± 1.0 dB @ 10 MHz

With correction factors applied: Typical expanded measurement uncertainty (95% confidence interval):

0.8 dB, 100 kHz–1 GHz
1.4 dB, 1 GHz–6 GHz

Response Time/Sampling Rate (through F17000):

20 msec/up to 50 samples per second, USB and GPIB only

Isotropic Deviation (measured at the ortho angle):

± 0.5 dB @ 10 MHz
 ± 0.5 dB, 0.5 MHz–2 GHz (typical)

Operating Range:

0.5–800 V/m, 100 kHz–1 GHz
0.5–600 V/m, 1 GHz–4 GHz
0.7–800 V/m, 4 GHz–6 GHz

Linearity, 0.5 to 800 V/m:

± 0.5 dB and ± 0.3 V/m

Temperature Stability: ± 0.5 dB over operating temperature range

Damage Level: 1000 V/m continuous field

Ranges: Single range

Data returned from probe: X, Y, Z axes, and composite

Power Requirements: Laser powered from F17000 interface

Dimensions:

5.7 x 5.7 x 5.7 cm (2.25 x 2.25 x 2.25 in)
2.92 cm (1.15 in) DIA spherical housing
3.18 cm (1.25 in) sensor radome per axes

Weight: 62.5 g (2.2 oz)

Operating Temperature Range: 10°C to 40°C (50°F to 104°F) @ 5% to 95% RH non-condensing

Fiber Optic Connectors: Two E2000 compact duplex connectors at 1 meter, includes fiber optic verification loop.

Calibration Data: Accredited Calibration Report (A2LA) supplied with probe